Silent Night® Users Manual

Silent Night®

Silent Night PT-100 Air Purifier

Breathe with Confidence

Dust

Mold Spores

Dander

Smoke

Allergens

Germs

Viruses

VOC's

Silent Night PT-100

by 800PureAir of California

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DOUBLE ZEPA® FILTRATION

Introduction To Silent Night®

Congratulations on your choice of the **Silent Night** fanless air purifier. Its technologies have been validated by leading university scientists, and reported in respected scientific journals. Inventor Stan Weinberg owns five patents on this remarkable **Silent Ion-Drive technology.**

The Silent Night model uses the electrostatic force of negatively charged particles being attracted to positively charged particles to accelerate air and its pollutants through two charge-sensitive filters. With no fan noise, the PT-100 moves at least 100 cubic feet of air per minute through your unit…silently.

In April 2013, a lab certified by the Association of Household Appliance Manufacturers (AHAM) completed a test series to establish PT-100's official Clean Air Delivery Rate which was rated at 139 CADR, well above our official claim of 100 cubic feet per minute of air movement!

Testing has been done with worst case (hardest to capture) MPPS (most penetrating particle size) of .3 microns, which is used in the Centers for Disease Control and Prevention (CDC), Underwriters Laboratories (UL), Intertek and IBR.

Only Intertek and IBR are certified to do AHAM testing. **The rules consider air flow, room size, distance from the appliance, time of operation, and the reduction of particles down to .1 micrometer in diameter.** Some viruses and all bacteria fall in the ranges that are measured. We also find mold spores, pollen, pet dander, smoke particulate, and the byproduct of human habitation: house dust (80% of which is from human skin flakes).

Using a 13' x 16' bedroom with a 10' ceiling and a closed door (the AHAM test-room volume), **PT-100 processes an air volume equal to that room size every 15 minutes** (96 times per day). **Your PT-100 is most effective in a closed room such as a bedroom, office, etc.** More than one unit may be necessary in larger areas where new pollution is constantly added by life's activities, A/C and heating, room-to-room contamination, pets and outdoor air exchange.

Your PT-100 is designed to run 24/7. You can **Breathe with Confidence®** knowing your **Silent Night®** with **Double ZEPA Filtration** will remove millions of airborne particles, dust, mold spores, smoke, pollen, dander, allergens, germs, viruses and volatile organic compounds.

General Safety

1. Do not open or disassemble. No user serviceable parts inside. Do not push objects into any opening.
2. Not for outdoor use.
3. Do not spill liquids into your Silent Night PT-100.
4. Use only the adapter provided. A substitute adapter may harm the unit and will void your warranty.
5. Operate 9 inches from walls and not on or near metal surfaces.
6. Operating closer than 9 inches from your body can cause a harmless static discharge when you touch a grounded surface.
7. Do not install or operate within 2 feet of computer equipment.
8. Extension cords are safe to use with your unit, but be cautious, it can become a tripping hazard.

ELECTRICAL SAFETY: Electrical safety features against shock hazards are incorporated per UL867. As to shock potential, the Department of Energy classifies static charge potential below 250 mJ (millijoules), the level of carpet static, as safe for humans. PT-100, at 100 mJ, has far less of a shock capability.

OZONE SENSITIVITY: Your PT-100 will emit negligible ozone. Its two ZEPA filters, treated with a catalyst agent, convert ozone to oxygen. **The Silent Night PT-100 meets ozone safety standards in California, Canada, and around the world.**

Setup & Operation

1. Insert supplied DC power jack into receptacle on the unit's right side, with the power switch OFF **(O).**
2. Insert universal adapter prongs into AC outlet.
3. Electrostatic filters are pre-installed. Refer to page 11, "changing filters" to learn how to change the filters.
4. On rocker switch press "**|**" for ON and "**O**" for OFF. When ON (**|**), you'll observe a low intensity blue light inside the front grille.
5. Run 24/7 in areas that are occupied every day.
6. If crackling occurs, turn the power off. Then, turn your PT-100 upside down and right side up 3 times. This action causes the wire-cleaning beads to remove any dust that may have attached to the wires.
7. Using in a closed room without a fan running will extend the life of the filters. Smoking and wood fires will shorten the life of your filters.

Did you hear a rattle in your shipping box?
No problem. Wire-cleaning beads slide up and down whenever the unit is inverted.

Specifications

Technology	Patented Fanless Ion-Drive Technology. An array of ionization wires and a high-output hexagonal cage engine generate high air flow with minimal power consumption.
Electrical	24 Watts, UL approved (U.S. & Canada), universal adapter accepts 90V to 240V.
Safety Testing	Complies with Underwriters Laboratories Standard.
Power Adapter	A 24v class 2 universal adapter assures no direct line voltage contact and auto shutdown in unsafe circumstances.
CE Mark (Conformité Européenne)	This mark is the manufacturer's declaration that a product meets the requirements of all applicable European Economic Area directives.
Case	Impact-resistant, flame-resistant to 400 degrees Fahrenheit, molded polycarbonate with a matte finish.
Dimensions, Weight	14.5" Height x 12.5" Width x 6.5" Depth, 5 lbs.
Coverage	Air is near perfect at the machine. It mixes with room air based on distance and is exceptionally effective in closed rooms up to 400 sq. ft. and very valuable for zones up to 800 sq. ft. Two or more PT-100's are recommended for best results in a whole home (especially 1 in each bedroom).
Filters	Two ZEPA-quality filters (front and back) with patented Surgical Anti-Viral Filter Technology.
Ozone Output	Close to zero when level is controlled by factory-installed Catalyst Filters in the front and rear ports.
Noise	Silent. Less than 0.2 decibels.
Warranty	Two year limited warranty (see page 8-9).
Cleaning	Special internal mechanism permits user-initiated cleaning via product inversion without opening the machine. Periodically remove the filters and vacuum through the front and back grilles also.
Applications	Bedrooms, family living areas, offices or work stations, truck cabs, boats, motor homes, travel trailers, campers, etc.

Biological Challenges

Biological challenges for your Silent Night PT-100 include germs, viruses, bacteria, mold spores, dander, pollens, fumes, dust and smoke.

According to the Center for Disease Control (CDC), National Institute for Occupational Safety and Health (NIOSH), and aerosol scientists, if you can capture or eliminate the .3 micron (μ) test particles, you can capture and eliminate most airborne biological agents that are allergenic, toxic, or infective. Your PT-100 is highly effective in any indoor pollution scenario.

CDC/NIOSH Biological Germ Testing

CDC/NIOSH test procedure on 42CFR84 on page 24 states, "By using aerosols of the most penetrating size range (MPPS: .3 microns), the efficiency level against all [biologicals] (germs) will meet or exceed the certified efficiency level." Therefore, because your Silent Night PT-100 will remove .3 micron particle size and smaller, it protects us from breathing particle types that are most harmful to our health.

PT-100's 4 Functional Stages

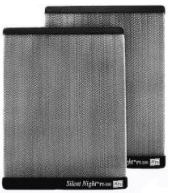
1. Silent Night's ZEPA Filtration array begins with a pre-filter at the rear of the unit. **The pre-filter captures millions of particles per day**.

2. The 'entry stage' of PT- 100's **Internal Fanless Engine** is a wire array with a self-cleaning mechanism. By disconnecting the power and turning your PT-100 upside down and right side up 3 times, the wires are swept clean. Any humming or crackling resulting from particulate contamination is thus eliminated.

3. The engine's 'accelerator stage' looks like a metallic cage. **Overall, the engine is lightweight and highly efficient...drawing only 24 watts of power. Indeed, running your purifier around the clock (recommended) costs no more than leaving a very small porch light burning for security.**

4. At the front of the unit is a second ZEPA electrostatic filter. This fanless system moves at least 100 cubic feet of air per minute**. Independent lab tests prove the PT-100 produces perfect or near-perfect air at .3 micron, 1 micron, and 5 micron test settings. No other air technology can match this.**

Silent Night's Double ZEPA® Filtration



Why ZEPA Filtration? *An average adult's lung surface area is the size of a tennis court, and normal breathing is 12 inhalations per minute—about 6 liters of air.* ***Every HOUR, we inhale 12.7 cubic feet of air (and its pollutants!).*** *Children have smaller lungs but their breathing rate is much higher. It makes sense to have a PT-100 in every closed room where we or our loved ones spend a lot of time. Closer to the occupants, within practical limits, is best!*

Top Filter Efficiency without Fan Noise

Whereas standard air cleaners must be run at their highest (noisiest) setting to produce top results, Silent Night's fanless ion engine and Double ZEPA Filtration capture close to 100% of particulate in total silence.

Silent Night's inventor, Stan Weinberg, developed his first high-capture filter medium in response to the Bird Flu scare fifteen years ago. Now known as "**ZEPA**" for **ZERO EMISSIONS PARTICULATE ARRESTMENT**, its use is licensed only to the Silent Night family of products.

The combination of PT-100's fanless ion engine and Double ZEPA Filtration provides these unique benefits:

- ☑ **The highest particulate capture efficiency.**
- ☑ **Silent operation.** (Fan-type units are loud and intrusive).
- ☑ **Super-low cost of operation. Compared to a HEPA system, the Silent Night PT-100 pays for itself in energy savings every 2 years.**
- ☑ **PT-100 always operates at maximum performance providing the highest particulate efficiency. No "low setting" is needed to reduce noise or operating cost.**

Our Inventor

World renowned inventor, Stan Weinberg, a holder of a multitude of electronics patents, decided more than a decade ago to do something about human breathing challenges. Today, he has developed several outstanding air purification products that have improved the lives of countless people across the globe.

Weinberg developed the world's first wearable air purifier. Mini-Mate hangs around the neck and blows out ions that repel viruses, bacteria, pollen, dander, smoke, and other pollutants. This device received impressive international attention after being featured on Dateline NBC, CNN, the Oprah Winfrey Show, the Today Show, CBS News, and in many newspapers and magazines.

Millions of Weinberg's products have sold in America and around the world, especially throughout Asia, where bird flu and SARS heightened public and governmental awareness of airborne hazards. See this video featuring Stan Weinberg on Dateline NBC:

http://weinproducts.com/media/quicktime/broadband/dateline2.mov

Applications

Breathe with Confidence® in Bedrooms, Offices and More!

The human immune system faces up to 10,000 invasive challenges per day from bacteria, viruses, mold spores, allergens, pollen, pet dander and more. Statistically, adults do one-third of their breathing in each of two very important locations; their bedroom and their workplace. Although these are compelling locations where Silent Night should be in use, other living spaces may include family living areas, truck cabs, boats, motor homes, campers, etc. **Your Silent Night PT-100 substantially lowers the concentrations of all pollutant categories listed.**

2 Year Limited Warranty

- 800PureAir (Silent Night company) warrants this product to be free of defects in material or workmanship for a period of 2 years following the date of purchase within the U.S. or Canada.
- Products sold by U.S. or Canadian Reps and shipped to buyers in other countries will be covered, but the customer must pay shipping both ways.
- All instructions must be followed to avoid cancellation of warranty.
- If a product is covered, 800PureAir will repair or exchange the defective product or component with a new or remanufactured replacement.

Warranty Continued

- 800PureAir will cover shipping of the repaired or replaced product to your U.S. or Canadian address.
- Products sold by foreign Reps or Affiliates in other countries are not covered. (Each country's warranty rules will apply.)
- If your model is no longer available, 800PureAir will replace it with the most similar product in its current inventory.
- You will be asked to provide [1] the purchase date, [2] your authorized retailer's name, and [3] one-way cost of shipping. Warranty does not cover problems from improper installation, misuse, abuse, neglect, unauthorized repair, accident, disassembly, shipping damage, or any cause not the responsibility of 800PureAir.
- Warranty does not apply to black market, used purchases, eBay purchases, purchases from surplus resellers, altered or modified units.
- Warranty is voided if the provided adapter is not used.

Warranty Shipping Address:

Silent LLC
115 W. 25th Street
Los Angeles, CA 90007
(213) 749-8506

Testimonial Contributions

"I developed a cough after I got a long haired cat and let it sleep on my bed. My doctor put me on an inhaler. I stopped using the inhaler two months ago once Silent Night was running full time. I'd been using it twice a day, but with your product in my bedroom the coughing stopped. Today, two months later, was my semi-annual appointment. The doc says I have no wheeze and my breathing is normal. This is only an anecdote, but I like your product and want to say so. And I still sleep with the cat."
- ***Karen Schwelling, Alabama***

"Two days after our Silent Night was in my bedroom I no longer had the post nasal drip problem that has bothered me for years."
- Bill Krull, Texas

Testimonials Continued

"I am an early fifties guy with asthma and sleep apnea. For years I have been sleeping with a CPAP mask (Continuous Positive Airway Pressure) over my face to keep me breathing through the night. Based on particle count testing I knew Silent Night reduced allergens and dust in my room by 90+% and would be good for anyone to breathe, especially asthmatics. But would it have a benefit through my CPAP mask? My CPAP air tested 77% cleaner when Silent Night was running. I have done test after test using 1-hour average results to be as accurate as possible. My 18-year old son calls it The Bomb; for us older people that translates to Wow!"

- Jim Dickerson, Virginia, pet food store owner

"I spent 20 years on the faculty of the University of Illinois at Urbana-Champaign. My academic areas of interest were Environmental Sciences and Natural Resources. I developed and taught 18 courses during my career. My main motivating factor during the span of that career was to change the world and make our environment better. After retiring I decided to focus my environmental work more at the individual level. Silent Night suits me perfectly."

- T.J. Jacob, Colorado

"Thank you again for this unit as I am enjoying the benefits of pure air during this flu season... I got my machine to be a test subject, but I want several more for the house. I wish you had this in the malls because people would go crazy knowing that they could help reduce the spread of germs in their homes! I'd rather have a Silent Night purifier over a flu shot or worse, the flu!!!"

- Mary Ann Hermansen, California

Note: We would appreciate hearing from you and the benefits you have experienced with your Silent Night PT-100. Simply write to:

800PureAir Administrative Offices
4872 Topanga Canyon Blvd. #322
Woodland Hills, CA 91364

or fax to: 818-337-2048

Changing Filters

Filter-changing Steps

Fig. 1

1. To remove or replace the filters (Fig. 1), turn the power switch to OFF (**O**) and unplug the cord from the wall.

2. To remove, invert the unit and pull the product name plate away from the machine to break the Velcro attachment that holds the filter cavity; then pull out the filter. (See Fig. 2)

Fig. 2

3. To insert a new filter, reverse this procedure while making sure the internal Velcro is tightly secured. (See Fig. 3)

4. Turn the unit around and repeat these same steps with the back filter.

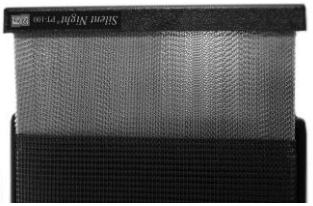


Fig. 3

5. Plug in the adapter, then turn the power switch to the ON position **(|)**.

Double ZEPA Filtration: *The pre-filter (at the back of the unit) is designed to keep the unit's interior clean, while the "finishing filter" (at the front of the unit) is designed to capture not only large particles, but more importantly, millions of .3 micron size and smaller - which are known to be the most harmful to our health.*

Filter Benefits and Life Expectancy: PT-100's filters protect the unit's interior and assure top performance. Six months of solid performance is normal. However, if you live in or near high particulate conditions your filter life can be reduced. For example, if you smoke, have pets, live near heavy pollen or near a freeway, etc. If you own a particle counter you can test the capture efficiency and know exactly when your filters need changing.

Health Disclaimer

The Silent Night PT-100 is not a medical product and no claims are made or implied that it can prevent, mitigate, treat, or cure any human disease.

The Benefits of Cleaner Air

To the extent cleaner air reduces the concentration of toxic, allergenic, and infective breathable particles…including germs, pollens, dust, and mold spores, it lowers the probability of inhaling critical levels (sometimes called trigger levels) of these airborne challenges.

Dr. Janet M. Macher* writes, *"The expected number of cases among a given number of susceptible persons is proportional to the average concentration of infectious droplet nuclei in a room and the probability that the particles will be inhaled."*

* Quote from page 96, Bio Aerosols Assessment and Control, 1999. Dr. Macher is a researcher of Governmental Industrial Hygienists (ACGIH) for the American Conference.

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